

Listing of Claims:

1. (Previously Presented) An optical element drive mechanism, comprising:

a movable portion including at least an optical element having a reflecting surface arranged on a first side of the movable portion;

a support member for supporting the movable portion rotatably with respect to a fixing member; and

a drive mechanism including at least a coil and a magnet for driving the movable portion;

wherein an end surface of the magnet, at which a magnetic pole is provided, is substantially parallel to the reflecting surface of the movable portion; and

wherein the magnet is arranged to oppose a second side of the movable portion that is opposite to the first side of the movable portion on which the reflecting surface is arranged.

2. (Previously Presented) The optical element drive mechanism according to claim 1, wherein the coil includes an effective portion which generates rotation torque, and a magnetic field which is substantially in parallel with the reflecting surface of the movable portion functions on the effective portion of the coil.

3. (Previously Presented) The optical element drive mechanism according to claim 1, wherein the end surface of the magnet is a single end surface, and a plurality of magnetic poles are provided on the single end surface of the magnet.

4. (Previously Presented) The optical element drive mechanism according to claim 3, wherein the plurality of magnetic poles provided on the single end surface of the magnet are arranged to oppose the second side of the movable portion.

5 5. (Previously Presented) The optical element drive mechanism according to claim 4, wherein the coil includes an effective portion which generates rotation torque, and the effective portion of the coil is positioned at a boundary portion between respective magnetic poles of the magnet.

6. (Original) The optical element drive mechanism according to claim 1, wherein the coil is attached to the movable portion.

7. (Previously Presented) The optical element drive mechanism according to claim 6, wherein the coil is mounted on the second side of the movable portion so as to oppose the magnet.

8. (Original) The optical element drive mechanism according to claim 1, further comprising an array of a plurality of the movable portions.

9. (Original) The optical element drive mechanism according to claim 8, wherein the plurality of the movable portions are provided integrally with respective support members.

10. (Original) The optical element drive mechanism according to claim 8, wherein a magnetic flux generated by the magnet is adapted to drive the plurality of movable portions.

Claims 11-29 (Cancelled).

30. (New) The optical element drive mechanism according to claim 1, wherein the coil is provided between the magnet and the reflecting surface.

31. (New) The optical element drive mechanism according to claim 30, wherein the coil includes an effective portion which generates rotation torque, and a magnetic field which is substantially parallel to the reflecting surface of the movable portion functions on effective portion of the coil.

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32. (New) The optical element drive mechanism according to claim 30, wherein a plurality of magnetic poles are provided on the end surface of the magnet.

33. (New) The optical element drive mechanism according to claim 32, wherein the plurality of magnetic poles provided on the end surface of the magnet are opposite to the movable portion.

34. (New) The optical element drive mechanism according to claim 33, wherein the coil includes an effective portion which generates rotation torque, and the effective portion of the coil is positioned at a boundary portion between respective magnetic
5 poles of the magnet.

35. (New) The optical element drive mechanism according to claim 30, wherein the coil is attached to the movable portion.

36. (New) The optical element drive mechanism according to claim 35, wherein the movable portion comprises the reflecting surface on a first side and the coil on a second side that is opposite to the first side.

37. (New) The optical element drive mechanism according to claim 30, further comprising an array of a plurality of the movable portions.

38. (New) The optical element drive mechanism according to claim 37, wherein the plurality of the movable portions are provided integrally with respective support members.

39. (New) The optical element drive mechanism according to claim 37, wherein a magnetic flux generated by the magnet is adapted to drive the plurality of movable portions.

40. (New) The optical element drive mechanism according to claim 1, further comprising:

a plate including a plurality of the movable portions;

a plurality of the support members, for supporting the

5 movable portions; and

a plurality of the coils, provided on the movable portions;

wherein the magnet is provided in parallel with the reflecting surfaces so as to be opposite to the coils.

41. (New) The optical element drive mechanism according to claim 40, wherein the magnet comprises a plurality of magnetic poles.

42. (New) The optical element drive mechanism according to claim 40, wherein the magnet has a substantially flat plate shape.

43. (New) The optical element drive mechanism according to claim 41, wherein the magnetic poles of the magnet are opposite to the movable portions.

44. (New) The optical element drive mechanism according to claim 40, wherein the coils include respective effective portions which generate rotation torque, and a magnetic field which functions on the effective portion of the coils is substantially
5 parallel to the reflecting surfaces.

45. (New) The optical element drive mechanism according to claim 40, wherein the magnet is a single magnet.

46. (New) The optical element drive mechanism according to claim 40, further comprising a housing for holding the plate and the magnet.

47. (New) The optical element drive mechanism according to claim 46, wherein the housing, the magnet and the plate are consecutively stacked.

48. (New) The optical element drive mechanism according to claim 40, wherein the movable portions each comprise the reflecting surface on a first side and the coil on a second side that is opposite to the first side.